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Corrigendum

Corrigendum to "On the unified approach to anisotropic and isotropic elasticity for singularity, interface and crack in dissimilar media" [International Journal of Solids and Structures 40 (2003) 1411–1431]

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Abstract

The authors regret that several sign and notation errors were made in the above article. The errors were mainly introduced when changing notation systems for anisotropic elasticity, which are not unique in the literature.

On page 1417, Eq. (2.26a) should read:

$$\alpha = \left(\frac{4G}{\kappa+1} - \frac{C_{11}^2 - C_{12}^2}{C_{11}\sqrt{\eta+2}}\right) \Big/ \left(\frac{4G}{\kappa+1} + \frac{C_{11}^2 - C_{12}^2}{C_{11}\sqrt{\eta+2}}\right).$$

On page 1418, the parameter should read:

$$s_j = x_1^0 + p_j x_2^0.$$

On page 1418, Eq. (3.4) should read:

$$Q = \frac{P_1 + \mathrm{i}P_2}{2\pi(\kappa+1)} + \frac{G\mathrm{i}(b_1 + \mathrm{i}b_2)}{\pi(\kappa+1)}, \quad q = \frac{P_3}{2\pi\mathrm{i}} + \frac{Gb_3}{2\pi}.$$

On page 1419, Eq. (3.7) should read:

$$\mathbf{f}'(z) = \begin{cases} \mathbf{B}_1^{-1}(\mathbf{I} - \mathbf{i}\boldsymbol{\beta})^{-1}(\mathbf{I} + \boldsymbol{\alpha})\mathbf{B}_2\mathbf{f}_0'(z), & \text{in } S_1, \\ \mathbf{B}_2^{-1}(\mathbf{I} + \mathbf{i}\boldsymbol{\beta})^{-1}(\boldsymbol{\alpha} - \mathbf{i}\boldsymbol{\beta})\bar{\mathbf{B}}_2\bar{\mathbf{f}}_0'(z) + \mathbf{f}_0'(z), & \text{in } S_2. \end{cases}$$

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On page 1419, the sentence should read:
For the former case, $\boldsymbol{\alpha} = \mathbf{I}$ and $\boldsymbol{\beta} = -\mathbf{L}_2\,\mathbf{W}_2$.
On page 1420, Eq. (3.10) should read:

$$\mathbf{f}'(z) = [\Phi(z), \Omega(z), \omega(z)]^{\mathrm{T}} = \begin{cases} \left[\dfrac{1+\alpha}{1-\beta}\Phi_0(z), \dfrac{1+\alpha}{1+\beta}\Omega_0(z), (1+\gamma)\omega_0(z)\right]^{\mathrm{T}}, & \text{in } S_1, \\ \left[\Phi_0(z) + \dfrac{\alpha-\beta}{1+\beta}\overline{\Omega}_0(z), \Omega_0(z) + \dfrac{\alpha+\beta}{1-\beta}\bar{\Phi}_0(z), \omega_0(z) + \gamma\bar{\omega}_0(z)\right]^{\mathrm{T}}, & \text{in } S_2. \end{cases}$$

On page 1420, Eq. (3.11) should read:

$$\mathbf{f}'(z) = \begin{cases} \begin{bmatrix} \Phi_1(z) \\ \Omega_1(z) \\ \omega_1(z) \end{bmatrix} = \begin{bmatrix} \dfrac{1}{2\pi}\dfrac{1+\alpha}{1-\beta}\left[(1+p_1 i)\dfrac{q_1}{z-s_1} + (1+p_2 i)\dfrac{q_2}{z-s_2}\right] \\ \dfrac{1}{2\pi}\dfrac{1+\alpha}{1+\beta}\left[(1-p_1 i)\dfrac{q_1}{z-s_1} + (1-p_2 i)\dfrac{q_2}{z-s_2}\right] \\ -\dfrac{(1+\gamma)q_3}{\pi(z-s_3)} \end{bmatrix}, & \text{in } S_1, \\ \mathbf{B}_2^{-1}(\mathbf{I}+\mathbf{i}\boldsymbol{\beta})^{-1}(\boldsymbol{\alpha}-\mathbf{i}\boldsymbol{\beta})\bar{\mathbf{B}}_2\bar{\mathbf{f}}_0'(z) + \mathbf{f}_0'(z), & \text{in } S_2. \end{cases}$$

On page 1423, Eq. (3.22) should read:

$$\mathbf{t}(x_1) = (\mathbf{I}-\mathbf{i}\boldsymbol{\beta})^{-1}(\mathbf{I}+\boldsymbol{\alpha})\mathbf{B}_2\mathbf{f}_0'(x_1).$$